

Fig. 1

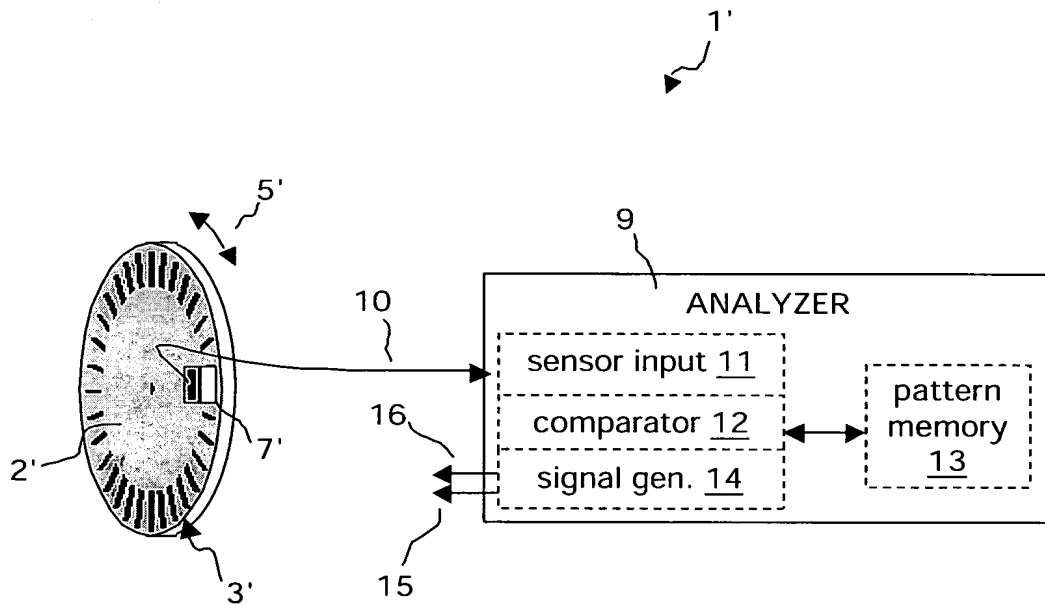


Fig. 2

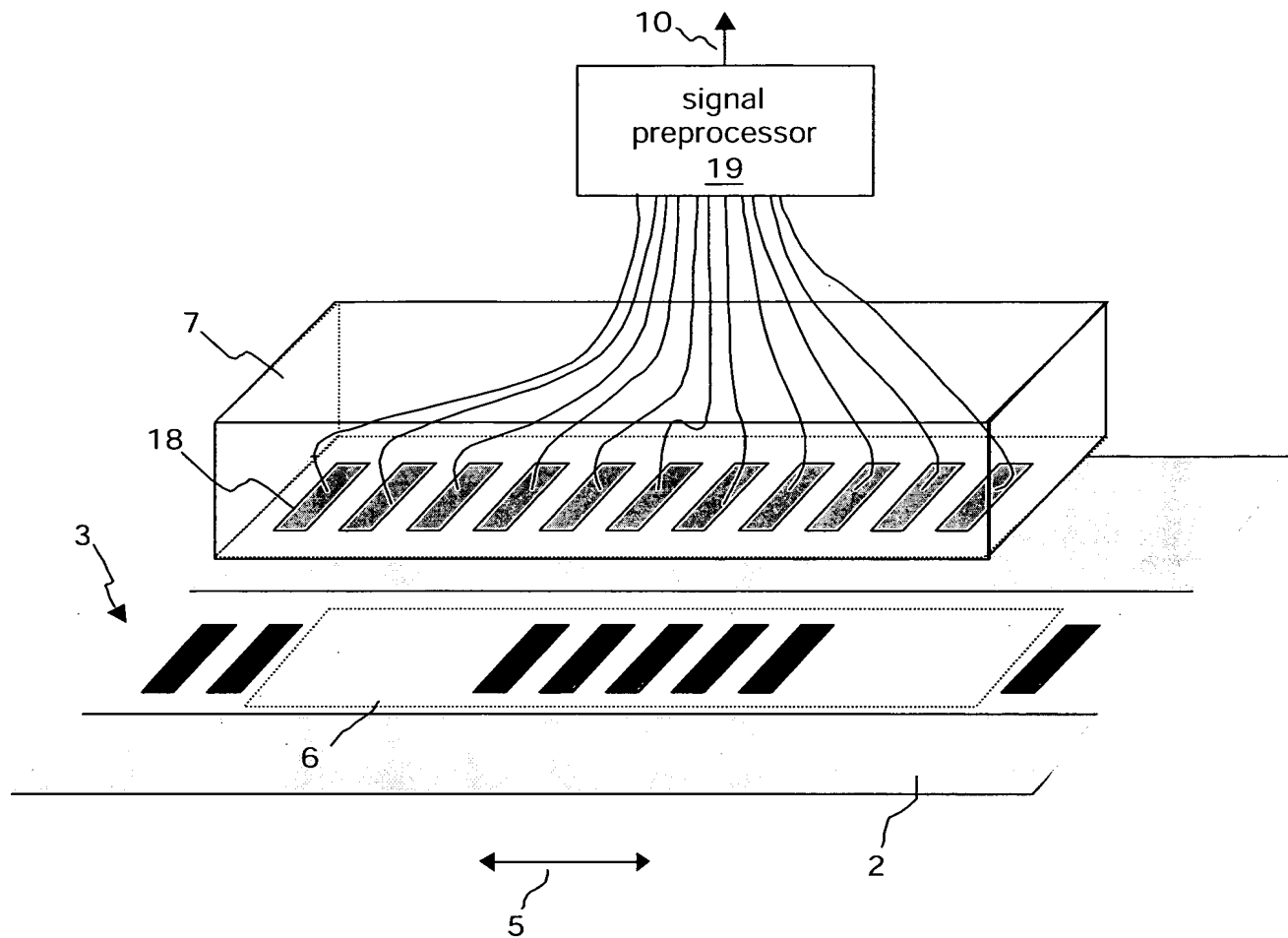


Fig. 3

Diagram illustrating a 1D lattice structure with 10 sites. The lattice is represented by a sequence of vertical bars. The first five bars are solid black, indicating occupied sites, and are labeled with '4' above them. The last five bars are outlined with dashed lines, indicating empty sites, and are labeled with '0' below them. The entire sequence is labeled '23' at the top left and '21' at the bottom right. The lattice spacing is indicated by a horizontal line segment labeled '24' at the bottom right.

A diagram showing a sequence of 22 bits, represented by a row of 22 vertical bars. The bits are: 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1. The bars are grouped into pairs, with the first bar of each pair being dashed and the second being solid. Labels include '3' with an arrow pointing to the first dashed bar, '20' with a bracket over the 10th and 11th bars, '21' with an arrow pointing to the 18th dashed bar, '4' with an arrow pointing to the 19th solid bar, and '22' with an arrow pointing to the last solid bar.

The diagram shows a sequence of 23 bits, labeled '23' with a bracket above them. The bits are represented by vertical bars, some solid black and some outlined with a dotted line. Below the bars are the bit values: 0, 1, 0, 1, 0, 1, 0, 0, 0, 1, 1, 1, 1, 1, 0, 0, 0, 1, 0, 1, 0, 1, 0, 1. A '3' with an arrow points to the first three bits (0, 1, 0). A '24' with an arrow points to the last bit (1). A '22' with an arrow points to the last bit (1).

**Fig. 4d**



ENCODING SYSTEM  
Jordi FERRAN, Xàvier SOLER, Carlos BOY  
200209859-1

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	viewed pattern	incremental signal	index signal
P1		1	0
P2		0	0
P3		1	0
P4		0	0
P5		1	0
P6		0	0
P7		1	0
P8		0	0
P9		1	0
P10		0	0
P11		1	0
P12		0	1
P13		1	0
P14		0	0
P15		1	0
P16		0	0
P17		1	0
P18		0	0
P19		1	0
P20		0	0
P21		1	0
P2		0	0
P1		1	0

Fig. 5

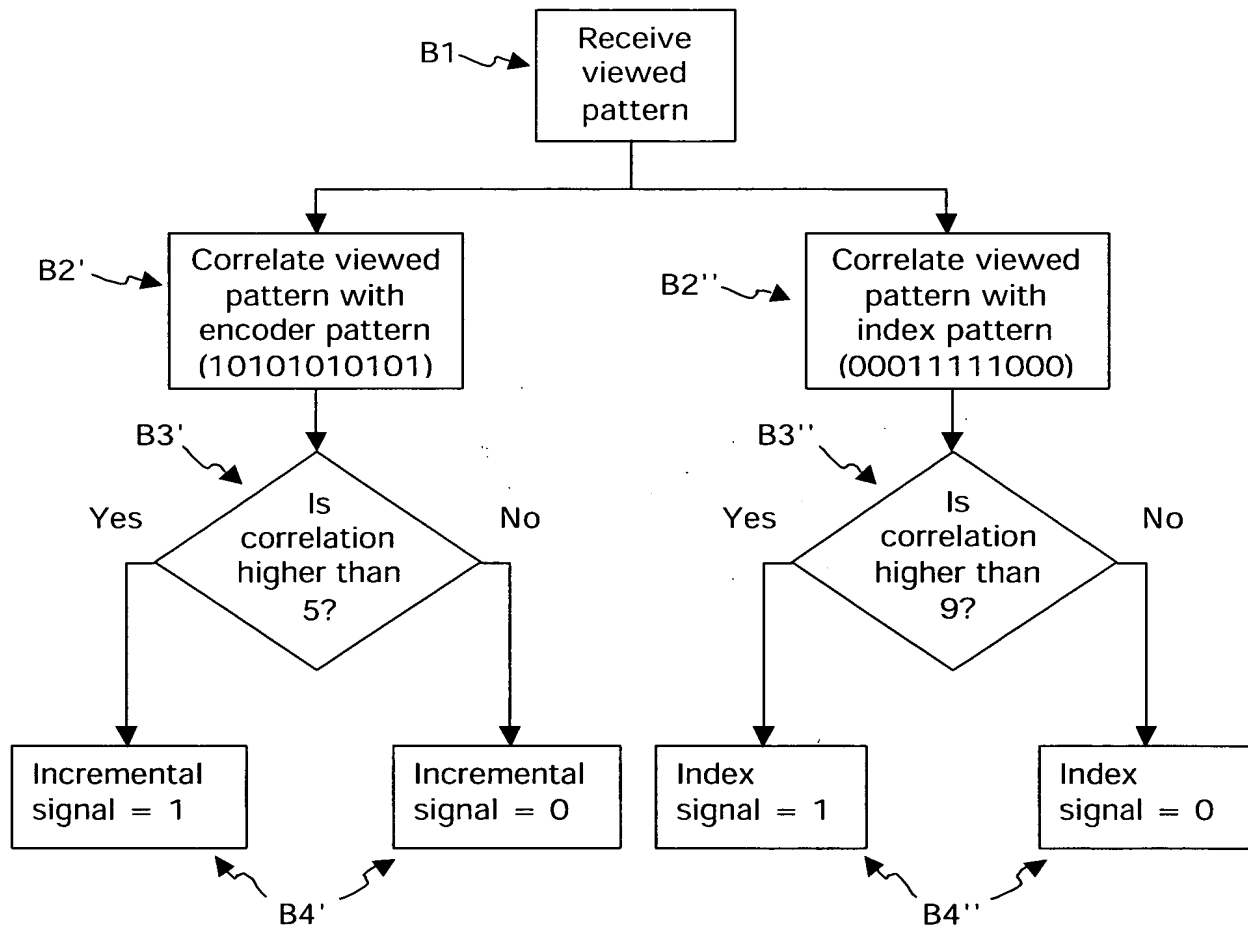
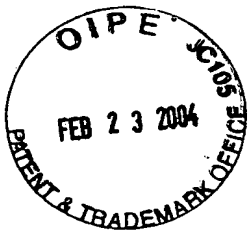


Fig. 6



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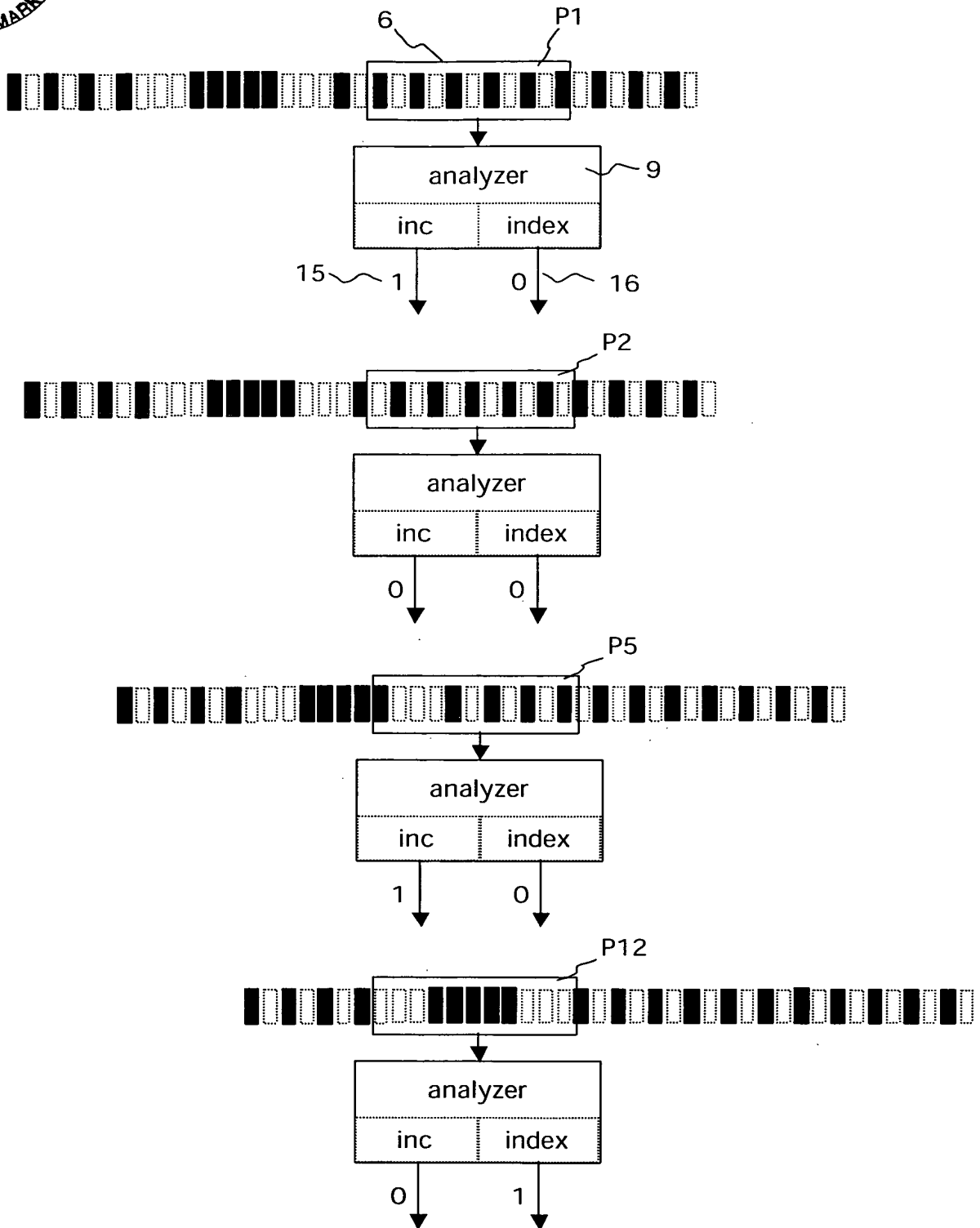
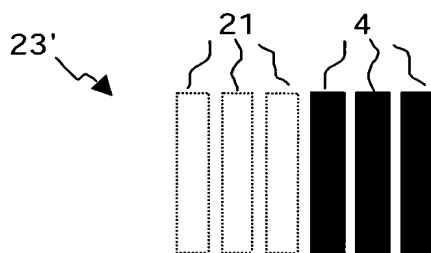


Fig. 7



	viewed pattern	incremental signal	index signal
R1	010101	1	0
R2	101010	0	0
R3	110101	1	0
R4	111010	0	1
R5	011101	1	0
R6	001110	0	0
R7	000111	1	1
R8	100011	0	0
R9	010001	1	0
R10	101000	0	0
R11	010100	1	0
R2	101010	0	0
R1	010101	1	0

Fig. 8

